Parameter	Action Level	Limit Level		
Dissolved Oxygen (DO) (1)	Surface and Mid-depth ⁽²⁾	Surface and Mid-depth (2)		
	5%-ile of baseline data for surface and	1%-ile of baseline data for surface and		
	middle layer = 3.76 mg L -1	middle layer = 3.11 mg L-1 ⁽³⁾		
	and	and		
	Significantly less than the reference	Significantly less than the reference		
	stations mean DO (at the same tide of	stations mean DO (at the same tide of		
	the same day)	the same day)		
	Bottom	Bottom		
	5%-ile of baseline data for bottom	The average of the impact station		
	layers = 2.96 mg L^{-1}	readings are <2 mg/L ⁻¹		
		0 · · · 0		
	and	and		
	Significantly less than the reference	Significantly less than the reference		
	stations mean DO (at the same tide of	stations mean DO (at the same tide of		
	the same day)	the same day)		
Depth-averaged Suspended	95%-ile of baseline data for depth	99%-ile of baseline data for depth		
Solids (SS) (4) (5)	average = 37.88 mg L-1	average = 61.92 mg L ⁻¹		
	and			
	und	and		
	120% of control station's SS at the same	130% of control station's SS at the same		
	tide of the same day	tide of the same day		
		2		
Depth-averaged Turbidity (Tby) ^{(4) (5)}	95%-ile of baseline data = 28.14 NTU	99%-ile of baseline data = 38.32 NTU		
· · · ·	and	and		
	120% of control station's Tby at the	130% of control station's Tby at the		
	same tide of the same day	same tide of the same day		
		· · · · · · · · · · · · · · · · · · ·		

Table B1Action and Limit Levels of Water Quality for Dredging, Disposal and
Capping Activities at ESC CMP V

Notes:

(1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

(2) The Action and Limit Levels for DO for Surface & Middle layers were calculated from the combined pool of baseline surface layer data and baseline middle layer data.

(3) Given the Action Level for DO for Surface & Middle layers has already been lower than 4 mg L⁻¹, it is proposed to set the Limit Level at 3.11 mg L⁻¹ which is the first percentile of the baseline data.

(4) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

(5) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table B2Water Column Profiling Results for ESC CMP Vd in October 2017

Stations	Temp	Salinity	Turbidity	Dissolved Oxygen		pН	Suspended Solids
	(°C)	(ppt)	(NTU)	(%) (mg L-1)			(mg L-1)
WCP 1	30.03	25.89	33.27	85.26	5.59	8.05	15.53
(Downstream)							
WCP 2	30.00	25.44	19.91	82.26	5.41	8.02	10.65
(Upstream)							
WQO (Wet season)	N/A	22.89 – 27.98#	N/A	N/A	>4	6.5-8.5	11.0

Note:

*Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station.

Cell shaded yellow / red indicate value exceeding the Action/Limit levels. Cell shaded grey indicate value exceeding the WQO.

Table B3In-situ Monitoring Results for Routine Water Quality Monitoring of ESC
CMPs in October 2017

Sampling	Stations	Temp	Salinity	Turbidity	Dissolve	d Oxygen	pН
Period	Stations	(°C)	(ppt)	(NTU)	(%)	(mg L-1)	(mg L-1)
October	RFE (Reference)	30.13	24.74	13.61	79.49	5.23	8.06
2017	IPE (Impact)	30.19	24.03	10.35	83.19	5.49	8.07
	INE (Intermediate)	30.18	24.37	14.49	82.16	5.42	8.06
	Ma Wan	29.88	26.43	7.74	75.31	4.93	8.01
	WOO	N/A	22.26 -	N/A	N/A	>4	6.5-8.5
	WQO		27.21#	IN/A	N/A	-4	0.3-8.5

Notes:

*Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station. Cell shaded yellow / red indicate value exceeding the Action/Limit levels. Cell shaded grey indicate value exceeding the WQO.

Table B4Laboratory Results for Routine Water Quality Monitoring of ESC CMPs in
October 2017

Sampling Period	Stations	As (µg/L)	Cd (µg/L)	Cr (µg/L)	Cu (µg/L)	Pb (µg/L)	Hg (µg/L)	Ni (µg/L)	Ag (µg/L)	Zn (µg/L)	NH3 (mg/L)	TIN (mg/L)	BOD5 (mg/L)	SS (mg/L)
October	RFE	2.17	<lor< td=""><td>1.22</td><td>2.24</td><td>1.30</td><td><lor< td=""><td>0.98</td><td><lor< td=""><td>51.73</td><td>0.11</td><td>0.73</td><td>1.11</td><td>13.17</td></lor<></td></lor<></td></lor<>	1.22	2.24	1.30	<lor< td=""><td>0.98</td><td><lor< td=""><td>51.73</td><td>0.11</td><td>0.73</td><td>1.11</td><td>13.17</td></lor<></td></lor<>	0.98	<lor< td=""><td>51.73</td><td>0.11</td><td>0.73</td><td>1.11</td><td>13.17</td></lor<>	51.73	0.11	0.73	1.11	13.17
2017	IPE	2.48	<lor< td=""><td>0.96</td><td>0.50</td><td>0.83</td><td><lor< td=""><td>1.79</td><td><lor< td=""><td>34.95</td><td>0.10</td><td>0.80</td><td>1.14</td><td>9.46</td></lor<></td></lor<></td></lor<>	0.96	0.50	0.83	<lor< td=""><td>1.79</td><td><lor< td=""><td>34.95</td><td>0.10</td><td>0.80</td><td>1.14</td><td>9.46</td></lor<></td></lor<>	1.79	<lor< td=""><td>34.95</td><td>0.10</td><td>0.80</td><td>1.14</td><td>9.46</td></lor<>	34.95	0.10	0.80	1.14	9.46
	INE	2.47	<lor< td=""><td>1.16</td><td>0.58</td><td>1.33</td><td><lor< td=""><td>1.43</td><td><lor< td=""><td>35.20</td><td>0.10</td><td>0.76</td><td>1.35</td><td>16.08</td></lor<></td></lor<></td></lor<>	1.16	0.58	1.33	<lor< td=""><td>1.43</td><td><lor< td=""><td>35.20</td><td>0.10</td><td>0.76</td><td>1.35</td><td>16.08</td></lor<></td></lor<>	1.43	<lor< td=""><td>35.20</td><td>0.10</td><td>0.76</td><td>1.35</td><td>16.08</td></lor<>	35.20	0.10	0.76	1.35	16.08
	Ma Wan	2.10	<lor< td=""><td>0.57</td><td>3.36</td><td>0.50</td><td><lor< td=""><td>0.50</td><td><lor< td=""><td>33.22</td><td>0.11</td><td>0.61</td><td>0.87</td><td>9.50</td></lor<></td></lor<></td></lor<>	0.57	3.36	0.50	<lor< td=""><td>0.50</td><td><lor< td=""><td>33.22</td><td>0.11</td><td>0.61</td><td>0.87</td><td>9.50</td></lor<></td></lor<>	0.50	<lor< td=""><td>33.22</td><td>0.11</td><td>0.61</td><td>0.87</td><td>9.50</td></lor<>	33.22	0.11	0.61	0.87	9.50
	WQO of TIN: 0.5 mg/L								5 mg/L					
	Wet Season WQO of SS : 11.0 mg/L								0 mg/L					

Notes:

Cell shaded yellow / red indicate value exceeding the Action/Limit levels.

Cell shaded grey indicate value exceeding the WQO.

Parameter	Action Level	Limit Level
Dissolved Oxygen (DO) (1)	Surface and Mid-depth ⁽²⁾	Surface and Mid-depth ⁽²⁾
	The average of the impact, WSR 45C	The average of the impact, WSR 45C
	and WSR 46 station readings are < 5%-	and WSR 46 station readings are < 4
	ile of baseline data for surface and	mg L ⁻¹
	middle layer = 4.32 mg L -1	-
		and
	and	
		Significantly less than the reference
	Significantly less than the reference	stations mean DO (at the same tide of
	stations mean DO (at the same tide of	the same day)
	the same day)	
	Bottom	Bottom
	The average of the impact, WSR 45C	The average of the impact station,
	and WSR 46 station readings are < 5%-	WSR 45C and WSR 46 readings are < 2
	ile of baseline data for bottom layers =	mg L ⁻¹
	$3.12 \text{ mg } \text{L}^{-1}$	
		and
	and	
	unu	Significantly less than the reference
	Significantly less than the reference	stations mean DO (at the same tide of
	stations mean DO (at the same tide of	the same day)
	the same day)	the same day)
	the same day)	
Depth-averaged Suspended	The average of the impact, WSR 45C	The average of the impact, WSR 45C
Solids (SS) ^{(3) (4)}	and WSR 46 station readings are >	and WSR 46 station readings are >
	95%-ile of baseline data for depth	99%-ile of baseline data for depth
	average = 21.60 mg L^{-1}	average = $40.10 \text{ mg } \text{L}^{-1}$
	average - 21.00 mg L -	average - 40.10 mg L -
	and	and
	und	
	120% of control station's SS at the same	130% of control station's SS at the same
	tide of the same day	tide of the same day
Depth-averaged Turbidity	The average of the impact, WSR 45C	The average of the impact, WSR 45C
(Tby) ^{(3) (4)}	and WSR 46 station readings are >	and WSR 46 station readings are >
(10))()()	95%-ile of baseline data = 25.04 NTU	99%-ile of baseline data = 32.68 NTU
	and	and
	120% of control station's Tby at the	130% of control station's Tby at the
	same tide of the same day	same tide of the same day
	sume for the sume day	sume that of the sume day

Table B5Action and Limit Levels of Water Quality for Dredging, Backfilling and
Capping Activities for SB CMPs

(1) For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

(2) The Action and Limit Levels for DO for Surface & Middle layers were calculated from the combined pool of baseline surface layer data and baseline middle layer data.

(3) "Depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.

(4) For turbidity and SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table B6Monitoring Results for Water Quality Monitoring during Capping of SB CMPin September 2017

Sampling Period	Stations	SS (mg L-1)	NH3 (mg L ⁻¹)	TIN (mg L-1)	BOD5 (mg L-1)
September	RFF (Reference)	6.45	0.06	0.92	0.83
2017	IPF (Impact)	7.73	0.13	0.86	1.01
	INF (Intermediate)	5.89	0.11	0.57	0.68
	Ma Wan	6.60	0.16	0.40	0.73
	Sham Shui Kok	12.72	0.21	0.52	1.03
	Tai Mo To	10.65	0.17	0.65	0.77
	Tai Ho Bay 1	9.80	0.10	0.97	0.97
	Tai Ho Bay 2	8.37	0.09	0.72	1.57
	WQO	11.0	N/A	0.50	N/A

Notes:

Not exceeding 2°C of change of the results from the Reference Station.

*Not exceeding 10% of natural ambient level which is the result obtained from the Reference Station.

Cell shaded yellow / red indicate value exceeding the Action/Limit levels.

Cell shaded grey indicate value exceeding the WQO.